C3200n

OKI
PRINTING SOLUTIONS

User's Guide

C3200n

C3000 Series

PREFACE

Every effort has been made to ensure that the information in this document is complete, accurate, and up-to-date. The manufacturer assumes no responsibility for the results of errors beyond its control. The manufacturer also cannot guarantee that changes in software and equipment made by other manufacturers and referred to in this guide will not affect the applicability of the information in it. Mention of software products manufactured by other companies does not necessarily constitute endorsement by the manufacturer.

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The most up-to-date drivers and manuals are available from the Oki Europe website:

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As an Energy Star Program Participant, the manufacturer has determined that this product meets the Energy Star guidelines for energy efficiency.

This product complies with the requirements of the Council Directives 89/336/EEC (EMC) and 73/23/EEC (LVD) as amended where applicable on the approximation of the laws of the member states relating to electromagnetic compatibility and low voltage.

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NOTES, CAUTIONS AND WARNINGS

NOTE

A note appears in this manual like this. A note provides additional information to supplement the main text which may help you to use and understand the product.

CAUTION!

A caution appears in this manual like this. A caution provides additional information which, if ignored, may result in equipment malfunction or damage.

WARNING!

A warning appears in this manual like this. A warning provides additional information which, if ignored, may result in a risk of personal injury.

INTRODUCTION

Congratulations on buying this Oki colour printer. Your new printer is designed with advanced features to give you clear, vibrant colour prints and crisp black and white pages at high speed on a range of print media for the office.

Your printer includes these features:

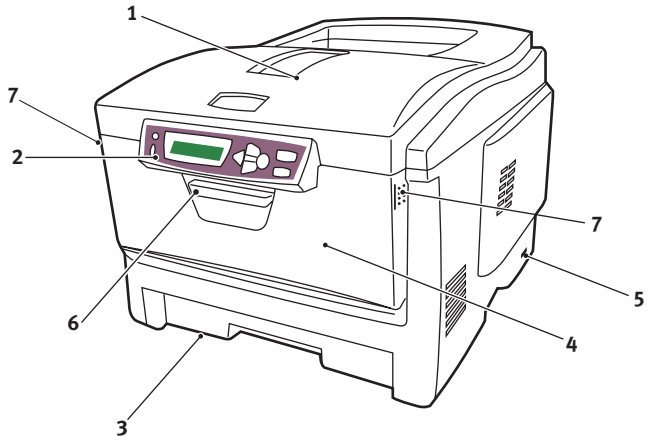
- Up to 16 pages per minute in full colour for fast printing of high impact colour presentations and other documents;
- Up to 24 pages per minute in black and white for fast and efficient printing of all general purpose documents not requiring colour;
- 1200 x 600 dpi (dots per inch) print resolution for high quality image production showing the finest detail;
- Single Pass Colour Digital LED technology for high speed processing of your printed pages;
- 10Base-T and 100Base-TX network connection lets you share this valuable resource among users on your office network;
- Photo Enhance mode to improve printouts of photographic images
- "Ask Oki" – a brand new, user-friendly function that gives a direct link from your printer driver screen (but not illustrated in this guide) to a dedicated web site specific to the exact model you are using. This is where you'll find all the advice, assistance and support you could need to help you get the best possible results from your Oki printer.

Additionally, the following optional features are also available:

- Automatic two-sided (duplex) printing for economical use of paper and compact printing of larger documents;
- Additional paper tray for loading a further 530 sheets to minimise operator intervention, or different paper stocks for letterhead stationery, alternative paper sizes or other print media;
- Additional memory allows printing of more complex pages, including two-sided and booklet pages with the optional duplex unit.

PRINTER OVERVIEW

FRONT VIEW

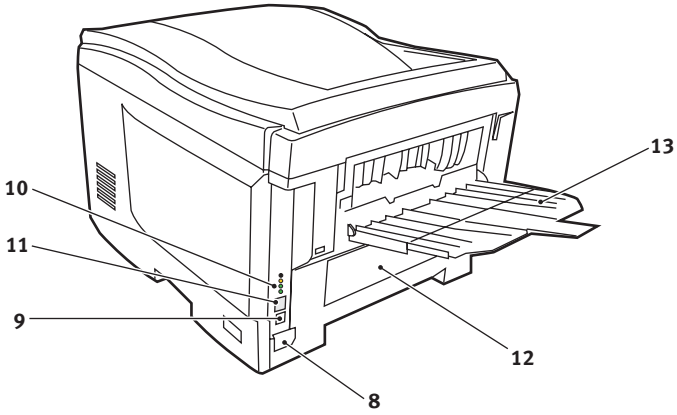


1. Output stacker, face down. Standard printed copy delivery point. Holds up to 250 sheets at 80g/m².	**4.** Multi purpose feeder. Used for feeding heavier paper stocks, envelopes and other special media. Also for manual feeding of single sheets when required.
2. Operator panel. Menu driven operator controls and LCD display panel.	**5.** ON/OFF switch.
3. Paper tray. Standard blank paper tray. Holds up to 300 sheets of 80g/m² paper.	**6.** Front Cover release (lift). **7.** Multi purpose feeder release (2) (press).

The LCD display language can be changed to show any of 14 different languages. (See "Changing the display language" on page 9.)

REAR VIEW

This view shows the connection panel, the rear output stacker and the location of the optional duplex (two-sided printing) unit.



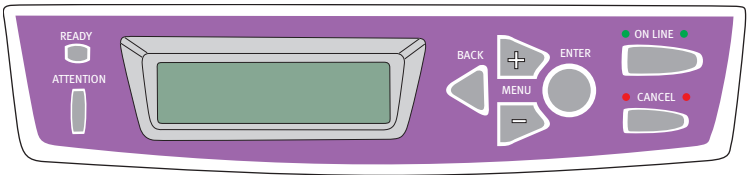
8. AC power socket.	**11.** Network interface.*
9. USB interface.	**12.** Location of optional duplex unit.
10. Network status lights.	**13.** Rear, face up, 100 sheet stacker.

** The Network Interface has a protective "plug" which must be removed before connection can be made.*

When the rear paper stacker is folded down, paper exits through the rear of the printer and is stacked here face up. This is mainly used for heavy print media. When used in conjunction with the multi purpose feed tray, the paper path through the printer is essentially straight. This avoids bending the paper around curves in the paper path and enables feeding of up to 203g/m² media.

CHANGING THE DISPLAY LANGUAGE

The language used by your printer for display messages and for report printing can be changed quickly and easily as follows:



1. Press the **+** key repeatedly to access the System Configuration Menu.
2. Press the **ENTER** key to enter the System Configuration Menu.
3. Press the **–** key to move directly to the last item in this menu: LANGUAGE.
4. Press **ENTER** to change this setting.
5. Use the **+**/**–** keys to move in either direction through the list of available languages until the language you want is displayed.
6. Press the **ENTER** key to select this language.
7. Press the **ON LINE** key to exit the menu system and return the printer to standby.

The LCD display language can be changed to any of these languages:

English	Norwegian
German	Danish
French	Dutch
Italian	Turkish
Spanish	Portuguese
Swedish	Polish
Russian	Greek

PAPER RECOMMENDATIONS

Your printer will handle a variety of print media, including a range of paper weights and sizes, transparencies and envelopes. This section provides general advice on choice of media, and explains how to use each type.

The best performance will be obtained when using standard 75~90g/m² paper designed for use in copiers and laser printers. Suitable types are:

- Arjo Wiggins Conqueror Colour Solutions 90g/m²;
- Colour Copy by Neusiedler.

Use of heavily embossed or very rough textured paper is not recommended.

Pre-printed stationery can be used, but the ink must not offset when exposed to the high fuser temperatures used in the printing process.

Envelopes should be free from twist, curl or other deformations. They should also be of the rectangular flap type, with glue that remains intact when subjected to hot roll pressure fusing used in this type of printer. Window envelopes are not suitable.

Transparencies should be of the type designed for use in copiers and laser printers. We strongly recommend Oki transparencies (Order No. 01074101). In particular, avoid office transparencies designed for use by hand with marker pens. These will melt in the fuser and cause damage.

Labels should also be of the type recommended for use in copiers and laser printers, in which the base carrier page is entirely covered by labels. Other types of label stock may damage the printer due to the labels peeling off during the printing process. Suitable types are:

- Avery White Laser Label types 7162, 7664, 7666 (A4), or 5161 (Letter);
- Kokuyo A693X series (A4) or A650 (B5).

CASSETTE TRAYS

SIZE	DIMENSIONS	WEIGHT (G/M²)	
A6 (Tray 1 only)	105 x 148mm	Light	64-74g/m²
A5	148 x 210mm	Medium	75-90g/m²
B5	182 x 257mm	Heavy	91-120g/m²
Executive	184.2 x 266.7mm	Ultra heavy	121-176g/m²
A4	210 x 297mm	(Tray 2 only)	
Letter	215.9 x 279.4mm		
Legal 13in.	216 x 330mm		
Legal 13.5in.	216 x 343mm		
Legal 14in.	216 x 356mm		

If you have identical paper stock loaded in another tray (2nd tray if you have one, or multi purpose tray) you can have the printer automatically switch to the other tray when the current tray runs out of paper. When printing from Windows applications, this function is enabled in the driver settings. (See "Printer Settings in Windows" later in this guide.) When printing from other systems, this function is enabled in the Print Menu. (See "Menu Functions" later in this guide.)

MULTI PURPOSE TRAY

The multi purpose tray can handle the same sizes as the cassette trays but in weights up to 203g/m². For very heavy paper stock use the face up (rear) paper stacker. This ensures that the paper path through the printer is almost straight.

The multi purpose tray can feed paper widths as small as 100mm and lengths up to 1200mm (banner printing).

For paper lengths exceeding 356mm (Legal 14in.) use paper stock between 90g/m² and 128g/m² and the face up (rear) paper stacker.

Use the multi purpose tray for printing on envelopes and transparencies. Up to 50 sheets of transparencies or 10 envelopes can be loaded at one time, subject to a maximum stacking depth of 10mm.

Paper or transparencies should be loaded print side up and top edge into the printer. Do not use the duplex (two-sided printing) function.

FACE DOWN STACKER

The face down stacker on the top of the printer can hold up to 250 sheets of 80g/m² standard paper, and can handle paper stocks up to 176g/m². Pages printed in reading order (page 1 first) will be sorted in reading order (last page on top, facing down).

FACE UP STACKER

The face up stacker at the rear of the printer should be opened and the tray extension pulled out when required for use. In this condition paper will exit via this path, regardless of driver settings.

The face up stacker can hold up to 100 sheets of 80g/m² standard paper, and can handle stocks up to 203g/m².

Always use this stacker and the multi purpose feeder for paper stocks heavier than 176g/m².

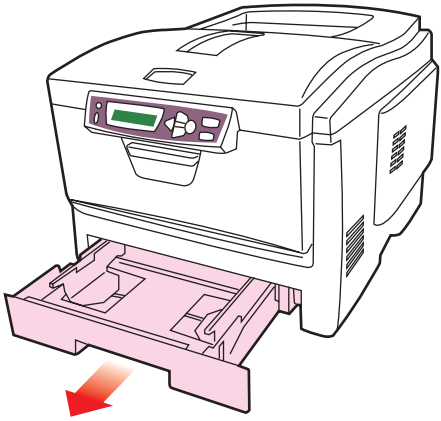
DUPLEX UNIT

This option provides automatic two-sided printing on the same range of paper sizes as tray 2 (i.e. all cassette sizes except A6), using paper stocks from 75-105g/m².

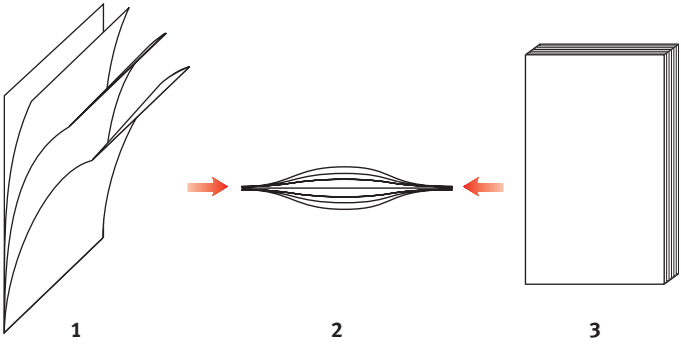
LOADING PAPER

CASSETTE TRAYS

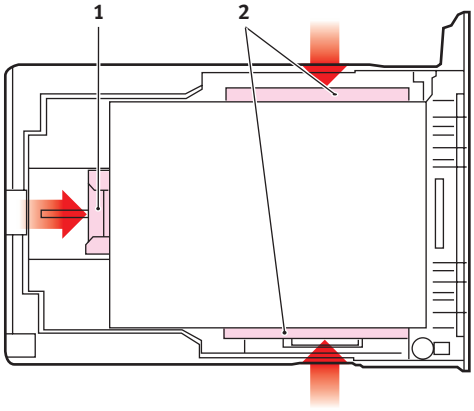
1. Remove the paper tray from the printer.



2. Fan the paper to be loaded at the edges (1) and in the middle (2) to ensure that all sheets are properly separated, then tap the edges of the stack on a flat surface to make it flush again (3).



3. Load letter headed paper face down and top edge towards the front of the printer, as shown.



4. Adjust the rear stopper (1) and paper guides (2) to the size of paper being used.

To prevent paper jams:

- Do not leave space between the paper and the guides and rear stopper.
- Do not overfill the paper tray. Capacity depends on the type of paper stock.
- Do not load damaged paper.
- Do not load paper of different sizes or types at the same time.
- Do not pull the paper tray out during printing (except as described below for the 2nd tray).
- Close the paper tray gently.

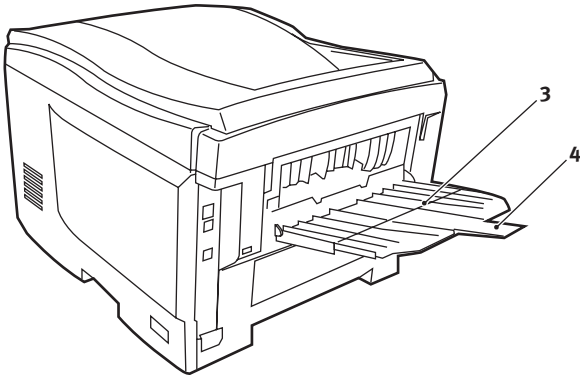
5. If you have two trays and you are printing from the 1st (upper) tray, you can pull out the 2nd (lower) tray during printing to reload it. However, if printing from the 2nd (lower) tray, do not pull out the 1st (upper) tray. This will cause a paper jam.

6. For face down printing, make sure the face up (rear) stacker (3) is closed (the paper exits from the top of the

printer). Stacking capacity is approximately 250 sheets, depending on paper weight.

7. For face up printing, make sure the face up (rear) stacker (3) is open and the paper support (4) is extended. Paper is stacked in reverse order and tray capacity is approximately 100 sheets, depending on paper weight.

8. Always use the face up (rear) stacker for heavy paper (card stock etc.).

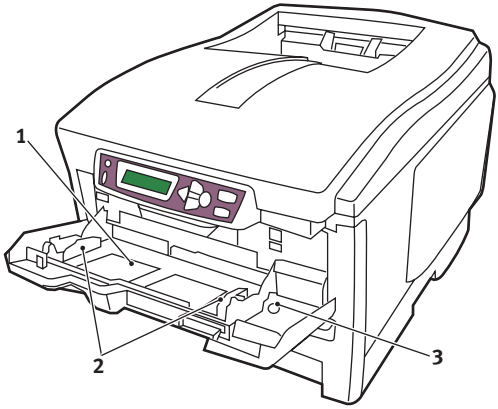


CAUTION!

Do not open or close the rear paper exit while printing as it may result in a paper jam.

MULTI PURPOSE TRAY

1. Open the multi purpose tray and press gently down on the paper platform (1) to ensure it is latched down.



2. Load the paper and adjust the paper guides (2) to the size of paper being used.

- For single-sided printing on headed paper load the paper into the multi purpose tray with pre-printed side up and top edge into the printer.
- For two-sided (duplex) printing on headed paper load the paper with pre-printed side down and top edge away from the printer. (Optional duplex unit must be installed for this function.)
- Envelopes should be loaded face up with top edge to the left and short edge into the printer. Do not select duplex printing on envelopes.
- Do not exceed the paper capacity of about 50 sheets or 10 envelopes. Maximum stacking depth is 10mm.

3. Press the tray latch button (3) inwards to release the paper platform, so that the paper is lifted and gripped in place.

Set the correct paper size for the multi purpose tray in the Media Menu (see "Menu Functions").

PRINTER SETTINGS IN WINDOWS

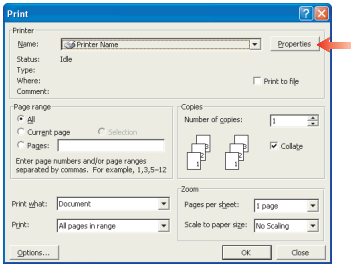
Your printer's operator panel menus provide access to many options.

The Windows printer driver also contains settings for many of these items. Where items in the printer driver are the same as those in the operator panel menus, and you print documents from Windows, the settings in the Windows printer driver will override those items in the operator panel menus.

The illustrations in this chapter show Windows XP. Other Windows versions may appear slightly different, but the principles are the same.

PRINTING PREFERENCES IN WINDOWS APPLICATIONS

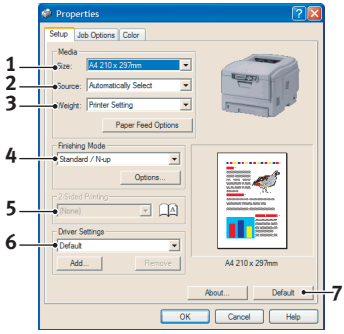
When you choose to print your document from a Windows application program a Print dialogue box appears. This dialogue usually specifies the name of the printer on which you will print your document. Next to the printer name is a **Properties** button.



When you click **Properties** a new window opens which contains a short list of the printer settings available in the driver, which you can choose for this document. The settings available from within your application are only those which you may want to change for specific applications or documents. Settings you change here will usually only last for as long as the particular application program is running.

SETUP TAB

When you click the **Properties** button from your application's Print dialogue, the driver window opens to allow you to specify your printing preferences for the current document.



1. Paper size should be the same as the page size of your document (unless you wish to scale the printout to fit another size), and should also be the same as the size of paper you will feed into the printer.

2. You can choose the source of the paper to feed, which may be Tray 1 (the standard paper tray), Tray 2 (if you have the optional 2nd paper tray installed) or the multi purpose feeder. You can also click on the appropriate part of the screen graphic to select your preferred tray.

3. The setting for paper weight should match the type of paper on which you intend to print.

4. A variety of document finishing options can be selected, such as normal one page per sheet, or N-up (where N can be any number up to 16) for printing scaled down pages at more than one page per sheet. Booklet printing prints two pages per sheet on each side of the paper so that when folded they make up a booklet. Booklet printing requires the duplex unit to be installed in your printer.

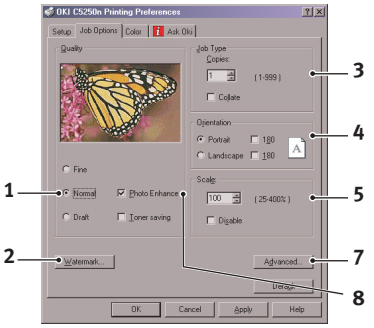
Poster printing will print large pages as tiles spread over multiple sheets.

5. For two-sided printing, you can choose to flip the page by the long edge or the short edge. Of course, this requires that a duplex unit be installed in your printer.

6. If you have changed some printing preferences before and saved them as a set, you can recall them to avoid having to set them individually each time you need them.

7. A single on-screen button restores the default settings.

JOB OPTIONS TAB



1. The output resolution of the printed page can be set as follows.

- The highest quality setting prints at 1200 x 600dpi. This option requires the most printer memory and takes the longest to print.
- The normal setting prints at 600 x 600dpi and is adequate for all but the most discerning applications.
- The draft setting prints at 300 x 300dpi and is suitable for draft documents, where print quality is less critical.

2. You can print watermark text behind the main page image. This is useful for marking documents as draft, confidential, etc.

3. You can select up to 999 copies to print consecutively, although you will need to top up the paper tray during such a long print run.

4. Page orientation can be set to either portrait (tall) or landscape (wide).

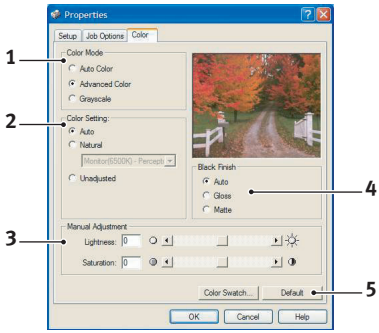
5. You printed pages can be scaled to fit larger or smaller stationery.

6. Clicking the Advanced button gives you access to further settings. For example, you can elect to have black areas printed using 100%K toner (a more matte appearance).

7. A single on-screen button restores the default settings.

8. The quality of photographic images can be improved.

COLOUR TAB



1. Control over the colour output of your printer may be performed automatically, or for advanced control, by manual adjustment. The automatic setting will be appropriate in most cases. The other options in this window only become visible when you select a choice other than Auto. For greyscale printing, the printer runs at 24ppm and all pages are printed in black and white.

2. You can choose from a range of colour matching options, depending on the image source for your document. For example, a photograph taken on a digital camera might require different colour matching to a business graphic created in a spreadsheet application. Again, for most general purpose use, automatic is the best choice.

3. Printed output may be made lighter or darker, or the colours made more saturated and vibrant as required.

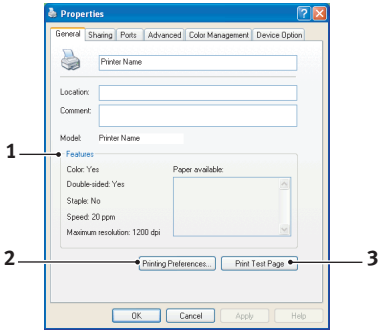
4. Black areas may be printed using 100% cyan, magenta and yellow (composite black), giving a more glossy appearance, or using only black toner (true black), giving a more matte appearance. Choosing the automatic setting allows the driver to make the most appropriate choice depending on image content.

5. A single on-screen button restores the default settings.

SETTING FROM WINDOWS CONTROL PANEL

When you open the driver properties window directly from Windows, rather than from within an application program, a somewhat more extensive range of settings is provided. Changes made here will generally affect all documents you print from Windows applications, and will be remembered from one Windows session to the next.

GENERAL TAB

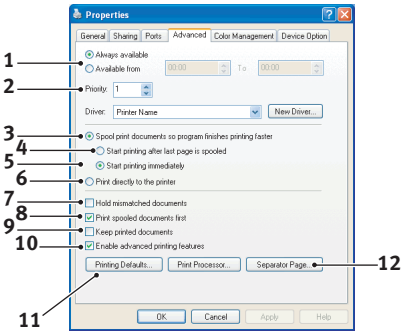


1. This area lists some of the main features of your printer, including optional items, such as duplex (two-sided) printing.

2. This button opens the same windows as described earlier for items which can be set from within application programs. Changes you make here, however, will become the new default settings for all Windows applications.

3. This button prints a test page to ensure that your printer is working.

ADVANCED TAB



1. You can specify which times of day your printer will be available.

2. Indicates current priority, from 1 (lowest) to 99 (highest). Highest priority documents will print first.

3. Specifies that documents should be spooled (stored in a special print file) before being printed. The document is then printed in the background, allowing your application program to become available more quickly.

4. This specifies that printing should not start until the last page has been spooled. If your application program needs a lot of time for further computation in the middle of printing, causing the print job to pause for more than a short period, the printer could prematurely assume that the document has finished. Selecting this option would prevent that situation, but printing will be completed a little later, as the start is delayed.

5. This is the opposite choice to the one above. Printing starts as soon as possible after the document begins spooling.

6. This specifies that the document should not be spooled, but printed directly. Your application will not normally be ready for further use until the print job is complete. This requires less disk space on your computer, since there is no spool file.

7. Directs the spooler to check the document setup and match it to the printer setup before sending the document to print. If a mismatch is detected, the document is held in the print queue and does not print until the printer setup is changed and the document restarted from the print queue. Mismatched documents in the queue will not prevent correctly matched documents from printing.

8. Specifies that the spooler should favour documents which have completed spooling when deciding which document to print next, even if completed documents are lower priority than documents which are still spooling. If no documents have completed spooling, the spooler will favour larger spooling documents over shorter ones. Use this option if you want to maximise printer efficiency. When this option is disabled the spooler chooses documents based only on their priority settings.

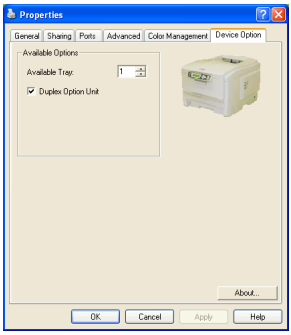
9. Specifies that the spooler should not delete documents after they are completed. This allows documents to be re submitted to the printer from the spooler instead of printing again from the application program. If you use this option frequently it will require large amounts of disk space on your computer.

10. Specifies whether advanced features, such as booklet printing, page order and pages per sheet, are available, depending on your printer. For normal printing keep this option enabled. If compatibility problems occur you can disable the feature. However, these advanced options may then not be available, even though the hardware might support them.

11. This button provides access to the same setup windows as when printing from applications. Changes made via the Windows Control Panel become the Windows default settings.

12. You can design and specify a separator page that prints between documents. This is particularly useful on a shared printer to help each user find their own documents in the output stack.

DEVICE OPTIONS TAB



In this window you can select which optional upgrades are installed on your printer. This is covered in more detail in the section in this guide about installing upgrades.

COLOUR PRINTING

The printer drivers supplied with your printer provide several controls for changing the colour output. For general use the automatic settings will suffice, providing reasonable default settings that will produce good results for most documents.

Many applications have their own colour settings, and these may override the settings in the printer driver. Please refer to the documentation for your software application for details on how that particular program's colour management functions.

FACTORS THAT AFFECT THE APPEARANCE OF PRINTS

If you wish to manually adjust the colour settings in your printer driver, please be aware that colour reproduction is a complex topic, and there are many factors to take into consideration. Some of the most important factors are listed below.

Differences between the range of colours a monitor or printer can reproduce

- Neither a printer nor a monitor is capable of reproducing the full range of colours visible to the human eye. Each device is restricted to a certain range of colours. In addition to this, a printer cannot reproduce all of the colours displayed on a monitor, and vice versa.
- Both devices use very different technologies to represent colour. A monitor uses Red, Green and Blue (RGB) phosphors (or LCDs), a printer uses Cyan, Magenta, Yellow and Black (CMYK) toner or ink.
- A monitor can display very vivid colours such as intense reds and blues and these cannot be easily produced on any printer using toner or ink. Similarly, there are certain colours, (some yellows for example), that can be printed, but cannot be displayed accurately on a monitor. This disparity between monitors and printers is often the main reason that printed colours do not match the colours displayed on screen.

Viewing conditions

A print can look very different under different lighting conditions. For example, the colours in a print may look different when

viewed standing next to a sunlit window, compared to how they look under standard office fluorescent lighting.

Printer driver colour settings

The driver settings for manual colour can change the appearance of a print. There are several options available to help match the printed colours with those displayed on screen.

Monitor settings

The brightness and contrast controls on your monitor can change how your document looks on-screen. Additionally, your monitor's colour temperature influences how "warm" or "cool" the colours look.

There are several settings found on a typical monitor:

- 5000k — Warmest; yellowish lighting, typically used in graphic art environments.
- 6500k — Cooler; approximates daylight conditions.
- 9300k — Cool; the default setting for many monitors and television sets.

(k = degrees Kelvin, a measurement of temperature.)

How your software application displays colour

Some graphics applications such as Corel Draw or Adobe Photoshop may display colour differently from "Office" applications such as Microsoft Word. Please see your application's on-line help or user manual for more information.

Paper type

The type of paper used can also significantly affect the printed colour. For example, a printout on recycled paper can look duller than one on specially formulated glossy paper.

TIPS FOR PRINTING IN COLOUR

The following guidelines may help you to achieve good colour output from your printer.

PRINTING PHOTOGRAPHIC IMAGES

Use the Monitor (6500k) Perceptual setting.

If the colours look too dull, try the Monitor (6500k) Vivid or Digital Camera settings.

PRINTING FROM OFFICE APPLICATIONS

Use the Monitor (9300k) setting. This may help if you are having problems with specific colours from applications such as Microsoft Excel or Microsoft PowerPoint.

PRINTING SPECIFIC COLOURS (E.G. A COMPANY LOGO)

There are 2 utilities on your printer driver CD-ROM that can help match specific colours:

Colour Correct Utility

Colour Swatch Utility

ADJUSTING THE BRIGHTNESS OR INTENSITY OF A PRINT

If the print is too light/dark, you can use the Brightness control to adjust it.

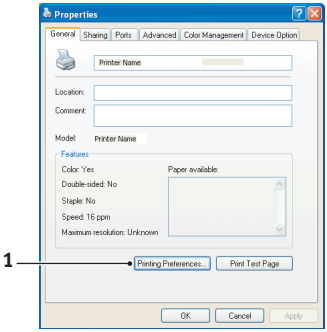
If the colours are too intense/not intense enough, use the Saturation control.

ACCESSING THE COLOUR MATCHING OPTIONS

The colour matching options in the printer driver can be used to help match your printed colours to the ones displayed on your monitor or from some other source, such as a digital camera.

To open colour matching options from the Windows Control Panel:

1. Open the **Printers** window (called "Printers and Faxes" in Windows XP).
2. Right-click the printer name and choose **Properties**.
3. Click the **Printing Preferences** button (1).

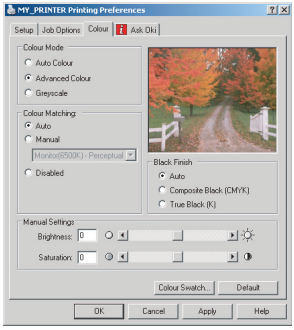


To open colour matching options from within a Windows application:

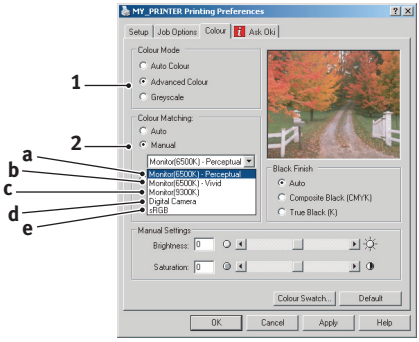
1. Choose **File—Print...** from the application's menu bar.
2. Click the **Properties** button next to the printer name.

SETTING THE COLOUR MATCHING OPTIONS

1. On the **Colour** tab select **Advanced Colour** for colour matching.



2. Choose the **Manual** colour setting and select from the following options:



(a) Monitor (6500k) Perceptual
Optimised for printing photographs. Colours are printed with emphasis on saturation.

(b) Monitor (6500k) Vivid
Optimised for printing photographs, but with even more saturated colours than the Monitor (6500k) Perceptual setting.

(c) Monitor (9300k)
Optimised for printing graphics from applications such as Microsoft Office. Colours are printed with emphasis on Lightness.

(d) Digital Camera
Optimised for printing photographs taken with a digital camera.

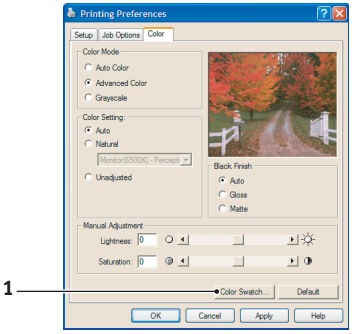
Your results will vary depending on the subject and the conditions under which the photograph was taken.

(e) sRGB
The printer will try to reproduce the sRGB colour space. This may be useful if colour matching from an sRGB input device such as a scanner or digital camera.

USING THE COLOUR SWATCH FEATURE

To use the Colour Swatch feature, you must install the Colour Swatch Utility. This is supplied on the CD-ROM that was supplied with your printer.

The Colour Swatch function prints charts which contain a range of sample colours. Note that this is not the full range of colours that the printer can produce. Listed on each sample colour are the corresponding RGB (Red, Green, Blue) values. This can be used to pick specific colours in applications that allow you to choose your own RGB values. Simply click the Colour Swatch button (1) and choose from the options available.



An example of using the colour swatch function:

You wish to print a logo in a particular shade of red. The steps you would follow are:

1. Print a colour swatch, then select the shade of red that best suits your needs.
2. Take a note of the RGB value for the particular shade that you liked.
3. Using your program's colour picker, enter these same RGB values, and change the logo to that colour.

The RGB colour displayed on your monitor may not necessarily match what was printed on the colour swatch. If this is the case, it is probably due to the difference between how your monitor and printer reproduce colour. Here, it is unimportant since your primary objective is to print the required colour.

USING THE COLOUR CORRECT UTILITY

The Oki Colour Correct Utility is provided on your printer driver CD-ROM. You must install it separately since it is not installed along with the printer driver.

The Colour Correct utility has the following features:

- Microsoft Office palette colours can be individually adjusted. This is useful if you want to change how a specific colour is printed.
- Colours can be adjusted by changing Hue, Saturation and Gamma. This is useful if you wish to change the overall colour output.

Once these colour adjustments have been made, the new settings can be selected from the printer driver Colour tab.

To select adjustments made with the Colour Correct Utility:

1. From your application program, click **File** and point to **Print**.
2. Click **Properties**. This displays the printer driver options.
3. Click the **Colour** tab.
4. Click **Advanced Colour**.
5. Click **User Defined**.

Select the colour adjustment you made with the Colour Correct Utility.

MENU FUNCTIONS

This section lists the menus accessed via the controls on the printer's operator panel and displayed in the LCD window.

It should be noted that many of these settings can be, and often are, overridden by settings in the Windows printer drivers. However, several of the driver settings can be left at "Printer Setting", which will then default to the settings entered in these printer menus.

Factory default settings are shown in **bold type** in the following tables.

In the normal operating condition, known as "standby," the printer's LCD window will show "ONLINE." In this condition, to enter the menu system, press the **+**/**–** keys on the operator panel to move up and down through the list of menus until the menu you wish to view is displayed. The proceed as follows:

1. Press **ENTER** to enter the menu.
2. Use the **+**/**–** keys to move up and down through the items in the menu. When the item you want to change is displayed, press **ENTER** to edit that item. An asterisk (*) appears next to the setting currently in effect.
3. Use the **+**/**–** keys to move up and down through the available settings for this item, and press **ENTER** when the setting you want is displayed. An asterisk (*) will appear next to the setting, indicating that this setting is now in effect.
4. Press **BACK** to move back to the list of menu items.
5. Do one of the following:

   - Press **BACK** again to move up to the list of menus;

   or…

   - Press **ON LINE** to exit from the menu system and return to standby.

INFORMATION MENU

This menu provides a quick method of listing various items stored within the printer.

INFORMATION MENU		
ITEM	**ACTION**	**EXPLANATION**
PRINT MENU MAP	EXECUTE	Prints complete menu listing with current settings shown.
DEMO1	EXECUTE	Prints demo page.

PRINT MENU

This menu provides adjustment of various print job related functions.

PRINT MENU		
ITEM	**SETTINGS**	**EXPLANATION**
COPIES	**1**-999	Enter the number of copies of a document to be printed from 1 to 999.
PAPER FEED	**TRAY1** TRAY2 MP TRAY	Selects the default tray for paper feed, Tray 1 (upper), Tray 2 (lower, if installed) or MP Tray (multi purpose tray).
AUTO TRAY SWITCH	ON/OFF	Turns Auto Tray Switch function ON or OFF.
TRAY SEQUENCE	DOWN UP PAPER FEED TRAY	Select Tray Sequences of Auto Tray Select and Auto Tray Switch
MP TRAY USAGE	**DO NOT USE** WHEN MISMATCH	If a document to be printed demands a paper size not installed in the selected tray, the printer can automatically feed from the multi purpose tray instead. If this function is not enabled, the printer will stop and request the correct size of paper to be loaded.
MEDIA CHECK	**ENABLE** DISABLE	Determines whether the printer check the size of paper loaded matches that required for the document sent to print.

PRINT MENU		
ITEM	**SETTINGS**	**EXPLANATION**
MONO-PRINT SPEED	AUTO SPEED	If the first page of a print job is only black and white, the printer runs at 20ppm (pages per minute). When a colour page is detected the printer slows down to 16ppm for the rest of that job.
	MONO 24PPM	This setting operates in the same way as AUTO SPEED, except that the printer runs at 24ppm until a colour page is detected. To achieve this speed the printer requires an additional 10 – 20 seconds to warm up and 30 – 60 seconds to cool down when switching to 16ppm for colour pages. This setting is therefore most appropriate when the majority of print jobs are entirely black and white.
	COLOUR SPEED	The printer runs at 16ppm for all print jobs. This setting is most appropriate when the majority of print jobs are in colour.
	MIXED SPEED	The printer automatically switches between 16ppm for each colour page and 20ppm for each black and white page. When black and white pages are printed, the 3 colour drums are automatically lifted to maximize their working life. This operation imposes a 10 – 20 second delay each time the printer switches between colour and black and white printing. However, the 30 – 60 second cool down delay described for MONO 24ppm is avoided by limiting black and white speed to 20ppm. This setting may be preferred for mostly black and white printing with some colour pages, or for environments where print jobs consist of all colour pages or all black and white pages.

MEDIA MENU

This menu provides adjustment to suit a wide range of print media.

MEDIA MENU		
ITEM	**SETTINGS**	**EXPLANATION**
TRAY1 PAPERSIZE	**A4** / A5 / A6 / B5 LEGAL14 LEGAL13.5 LEGAL13 LETTER EXECUTIVE CUSTOM	Selects the size of paper loaded in Tray 1 (upper tray if both trays installed). For CUSTOM setting see X-DIMENSION and Y-DIMENSION later in this table.
TRAY1 MEDIATYPE	**PLAIN** LETTERHEAD BOND RECYCLED CARDSTOCK ROUGH	Selects the type of media loaded in this tray. This will help the printer to adjust its internal operating parameters, such as engine speed and fusing temperature, to better accommodate the media to be fed. For example, letterhead may benefit from a slightly lower fusing temperature to ensure that its ink does not offset.
TRAY1 MEDIAWEIGHT	LIGHT (64-74g/m²) **MEDIUM** (75-90g/m²) HEAVY (91-120g/m²)	Adjusts the printer for the weight of paper stock loaded in thus tray.
TRAY2 PAPERSIZE	**A4** / A5 / B5 / LEGAL14 LEGAL13.5 LEGAL13 LETTER EXECUTIVE CUSTOM	Selects the size of paper loaded in Tray 2 (lower) if installed. For CUSTOM setting see X-DIMENSION and Y-DIMENSION later in this table.
TRAY2 MEDIATYPE	**PLAIN** LETTERHEAD BOND RECYCLED CARDSTOCK ROUGH	Selects the type of media loaded in this tray.

MEDIA MENU		
ITEM	**SETTINGS**	**EXPLANATION**
TRAY2 MEDIAWEIGHT	LIGHT (64-74g/m²) **MEDIUM** (75-90g/m²) HEAVY (91-120g/m²) ULTRA HEAVY (121-176g/m²)	Adjusts the printer for the weight of paper stock loaded in this tray.
MPT PAPERSIZE	**A4** / A5 / A6 / B5 LEGAL14 LEGAL13.5 LEGAL13 LETTER EXECUTIVE CUSTOM COM-9 ENVELOPE COM-10 ENVELOPE MONARCH ENV DL ENVELOPE C5 ENVELOPE	Selects the size of paper to be fed from the multi purpose tray. For CUSTOM setting see X-DIMENSION and Y-DIMENSION later in this table.
MPT PAPERTYPE	**PLAIN** LETTERHEAD TRANSPARENCY LABELS BOND RECYCLED CARD STOCK ROUGH	Selects the type of media to be fed from the multi purpose tray so that the printer can adjust its internal parameters to better accommodate the selected type of media.
MPT MEDIAWEIGHT	**MEDIUM (75-90g/m²)** HEAVY (91-120g/m²) ULTRA HEAVY (121-203g/m²)	Selects the media weight to be fed from the multi purpose tray.
UNIT OF MEASURE	**MILLIMETRE** INCH	Selects the unit of measure for the next two items.
X-DIMENSION	100-**210**-216 MILLIMETRE	Selects the width of paper defined by the “CUSTOM” settings referred to in the foregoing PAPER SIZE settings.

MEDIA MENU		
ITEM	**SETTINGS**	**EXPLANATION**
Y-DIMENSION	148-**297**-1200 MILLIMETRE	Selects the length of paper defined by the "CUSTOM" settings referred to in the foregoing PAPER SIZE settings. Note that media of up to 1200mm in length can be fed from the multi purpose tray for banner printing.

COLOUR MENU

The printer automatically adjusts colour balance and density at appropriate intervals, optimising the printed output for bright white paper viewed in natural daylight conditions. The items on this menu provide a means of changing the default settings for special or particularly difficult print jobs. Settings revert to their default values when the next print job is complete.

COLOUR MENU		
ITEM	**SETTINGS**	**EXPLANATION**
DENSITY CONTROL	**AUTO** MANUAL	If set to AUTO, image density will be automatically adjusted at power on, when a new image drum or toner cartridge is installed, and at intervals of 100, 300 and 500 drum counts. If a 500 drum count interval occurs during a print job it will occur at the end of that job, and will take up to 55 seconds. If set to manual, this adjustment will only be performed when initiated by the next menu item.
ADJUST DENSITY	EXECUTE	Selecting this will perform the auto density set up immediately.
AJST REGISTRATION	EXECUTE	Performs automatic colour registration adjustment. Normally this is done on power on and when the top cover is opened and then closed. This process accurately aligns the cyan, magenta and yellow images to the black image.
C REG FINE ADJUST M REG FINE ADJUST Y REG FINE ADJUST	-3~0~+3 -3~**0**~+3 -3~**0**~+3	Performs fine adjustment of image timing in relation to the black image component.

SYSTEM CONFIGURATION MENU

This menu adjusts general printer settings to suit the way you prefer to work.

SYSTEM CONFIGURATION MENU		
ITEMS	**SETTINGS**	**EXPLANATION**
POW SAVE TIME	5 15 30 **60** 240	Adjusts the idling time before the printer automatically switches into power saving mode. In this mode power consumption is reduced to a low level required to just keep the printer operating and ready to receive data. When a job is sent the printer will require a warm-up time of up to 1 minute before printing can begin.
CLEARABLE WARNING	**ON** JOB	When ON, non-critical warnings, such as requests for a different paper size, can be cleared by pressing the **ON LINE** button. When set to JOB, they are cleared when the print job resumes.
MANUAL TIMEOUT	OFF 30 **60**	Specifies how many seconds the printer will wait for paper to be fed before cancelling the job.
WAIT TIMOUT	5~**40**~300	Specifies how many seconds the printer will wait when received data pauses before forcing a page eject. In PostScript Emulation mode the job will be cancelled if timeout occurs.
LOW TONER	**CONTINUE** STOP	Specifies whether the printer should continue printing even after a low toner condition is detected.
JAM RECOVERY	**ON** OFF	Specifies whether the printer should perform jam recovery after a paper jam has occurred. If ON, the printer will attempt to print again any pages lost due to a paper jam once the jam has been cleared.
ERROR REPORT	ON **OFF**	Specifies whether to print an error report when an internal error occurs.

SYSTEM CONFIGURATION MENU		
ITEMS	**SETTINGS**	**EXPLANATION**
LANGUAGE	**English**, German, French, Italian, Spanish, Swedish, Norwegian, Danish, Dutch, Turkish, Portuguese, Polish, Russian, Greek,	Sets the language used for the display window and printed reports.

USB MENU

This menu controls the operation of the printer's USB data interface.

USB MENU		
ITEM	**SETTINGS**	**EXPLANATION**
VERSION	2.0	Selects USB version for compatibility.
SOFT RESET	ENABLE / **DISABLE**	Enables or disables the SOFT RESET command.

NETWORK MENU

This menu controls the operation of the printer's 10Base-T/ 100Base-T network interface.

NETWORK MENU		
ITEM	**SETTINGS**	**EXPLANATION**
TCP/IP	**ENABLE** / DISABLE	Enables or disables this network protocol.
NETBEUI	ENABLE / **DISABLE**	Enables or disables this network protocol.
IP ADDRESS SET	**AUTO** / MANUAL	Specifies whether IP address allocation is automatic (DHCP) or manually assigned.

NETWORK MENU		
ITEM	**SETTINGS**	**EXPLANATION**
IP ADDRESS	xxx.xxx.xxx.xxx	Current assigned IP address. To change, press **ENTER** and use **+**/**–** keys to increment 1st octet, then press ENTER again to move on to next octet. When 4th octet has been set, press ENTER again to register new address.
SUBNET MASK	xxx.xxx.xxx.xxx	Current assigned subnet mask. To change, proceed as above.
GATEWAY ADDRESS	xxx.xxx.xxx.xxx	Current assigned gateway address. To change, proceed as above.
INITIALIZE NIC?	EXECUTE	Initialises the network hardware.
WEB/IPP	**ENABLE** / DISABLE	Enables or disables Web config. facility and Internet Printing Protocol.
TELNET	**ENABLE** / DISABLE	Enables or disables Telnet config. facility.
FTP	**ENABLE** / DISABLE	Enables or disables communication via FTP.
SNMP	**ENABLE** / DISABLE	Enables or disables SNMP protocol.
LAN	**NORMAL** / SMALL	

MEMORY MENU

This menu determines how printer memory is used.

MEMORY MENU		
ITEM	**SETTINGS**	**EXPLANATION**
RECEIVE BUF SIZE	**AUTO**, 0.5MB, 1MB, 2MB, 4MB, 8MB, 16MB	Sets the size of buffer memory for receiving incoming data. Normally this is allocated dynamically as required.
FLASH INITIALIZE	EXECUTE	Clears all data from flash memory.

SYSTEM ADJUSTMENT MENU

This menu provides fine adjustment of image position on the printed page in steps of 0.25mm.

SYS ADJUST MENU		
ITEM	**SETTINGS**	**EXPLANATION**
X ADJUST	-2.00 ~ 0 ~ +2.00	Horizontal position.
Y ADJUST	-2.00 ~ 0 ~ +2.00	Vertical position.

MAINTENANCE MENU

This menu provides access to various printer maintenance functions.

MAINTENANCE MENU		
ITEM	**SETTINGS**	**EXPLANATION**
MENU RESET	EXECUTE	Resets menus to default settings.
SAVE MENU	EXECUTE	Saves current menu settings as default values. At confirmation prompt, press **ENTER** to confirm save, or **CANCEL** to cancel.
POWER SAVE	**ENABLE** / DISABLE	Enables or disables automatic power save mode. Delay before entering this mode is set in the system configuration menu.
PAPER BLACK SETTING	–2~0~+2	Used for small adjustment when you experience faded print or light specks / streaking in monochrome printing on white paper. Select a higher value to reduce fading, or a lower value to reduce specks or streaking in high density print areas.
PAPER COLOUR SETTING	–2~0~+2	As above, but for colour printing.
TRANSPR BLACK SETTING	–2~0~+2	As above but for mono printing on transparencies.
TRANSPR COLOUR SETTING	–2~0~+2	As above but for colour printing on transparencies.

USAGE MENU

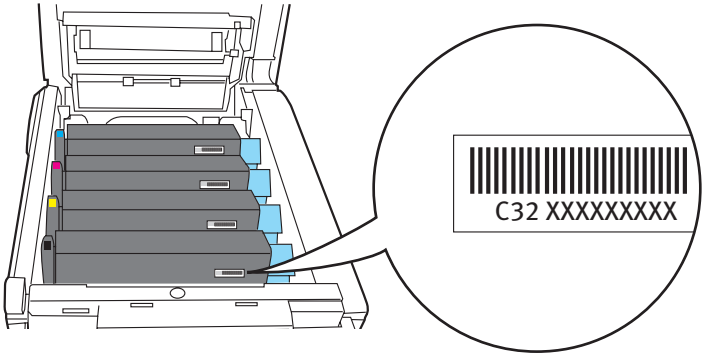
This menu is for information only, and provides an indication of total usage of the printer and the expected life left in its consumable items. This is particularly useful if you do not have a full set of replacement consumables to hand and you need to know how soon you will need them.

USAGE MENU	
ITEM	**EXPLANATION**
TOTAL PAGE COUNT	The total number of prints output by the printer.
TRAYn PAGE COUNT	The total number of pages fed from tray n.
MPT PAGE COUNT	The total number of pages fed from the multi purpose tray.
COLOUR PAGE COUNT	The total number of pages printed in colour.
MONO PAGE COUNT	The total number of pages printed in monochrome.
K DRUM LIFE REMAINING C DRUM LIFE REMAINING M DRUM LIFE REMAINING Y DRUM LIFE REMAINING	Percentage of life remaining in these consumable items.
K TONER C TONER M TONER Y TONER	Current toner level for 5,000 page and 3,000 page cartridges.

REPLACING CONSUMABLE ITEMS

This section explains how to replace consumable items when due. As a guide, the life expectancy of these items is:

- Toner — 3,000 (standard capacity) or 5,000 (high capacity) A4 pages at 5% coverage, which means that 5% of the addressable print area is printed with this colour. Toner life is directly affected by coverage, e.g. at 10% coverage there is sufficient toner for 1,500 pages (standard capacity) or 2,500 pages (high capacity), conversely at 2.5% there is sufficient toner for 6,000 pages (standard capacity) or 10,000 pages (high capacity) in the cartridge.



The printer is shipped with sufficient toner for 3,000 A4 pages in the print cartridges of which 1,500 A4 pages of toner are used to charge the image drum.

- Image drum — 17,000 pages (calculated on typical office usage where 20% of printing is 1 page only, 30% is 3 page documents and 50% is print runs of 15 pages or more).
- Transfer belt — Approximately 50,000 A4 pages.
- Fuser — Approximately 45,000 A4 pages.
- Standard capacity toner cartridge.
- High capacity toner cartridge.

CONSUMABLE ORDER DETAILS

ITEM	LIFE	ORDER NO.
Toner, black, standard	1,500 A4 @ 5%	43034808
Toner, cyan, standard	1,500 A4 @ 5%	43034807
Toner, magenta, standard	1,500 A4 @ 5%	43034806
Toner, yellow, standard	1,500 A4 @ 5%	43034805
Toner, black, high capacity	3,000 A4 @ 5%	42804540
Toner, cyan, high capacity	3,000 A4 @ 5%	42804539
Toner, magenta, high capacity	3,000 A4 @ 5%	42804538
Toner, yellow, high capacity	3,000 A4 @ 5%	42804537
Image drum kit, black,	14,000 A4 pages*	42126665
Image drum kit, cyan	14,000 A4 pages*	42126664
Image drum kit, magenta	14,000 A4 pages*	42126663
Image drum kit, yellow	14,000 A4 pages*	42126662
Fuser	45,000 A4 pages	42625503
Transport belt	50,000 A4 @ 3/job	42158712

* *Average life: 20% pages at continuous print, 50% pages at 3 pages per job and 30% pages at 1 page per job.*

Only use genuine Oki Original consumables to ensure the best quality and performance from your hardware. Non Oki Original products may damage your printer's performance and invalidate your warranty. Specifications subject to change without notice. All trademarks acknowledged.

TONER CARTRIDGE REPLACEMENT

CAUTION!

To avoid toner wastage and possible toner sensor errors, do not change the toner cartridge(s) until "TONER EMPTY" is displayed.

The toner used in this printer is a very fine dry powder. It is contained in four cartridges: one each for cyan, magenta, yellow and black.

Have a sheet of paper handy so that you have somewhere to place the used cartridge while you install the new one.

Dispose of the old cartridge responsibly, inside the pack that the new one came in. Follow any regulations, recommendations, etc., which may be in force concerning waste recycling.

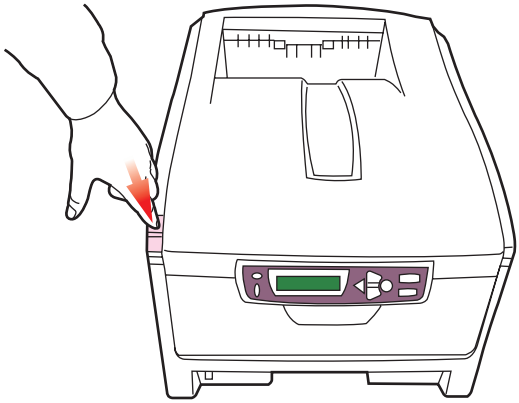
If you do spill any toner powder, lightly brush it off. If this is not enough, use a cool, damp cloth to remove any residue. *Do not use hot water, and never use solvents of any kind. They will make stains permanent.*

WARNING!

If you inhale any toner or get it in your eyes, drink a little water or bathe your eyes liberally in cold water. Seek medical attention immediately.

Switch off the printer and allow the fuser to cool for about 10 minutes before opening the cover.

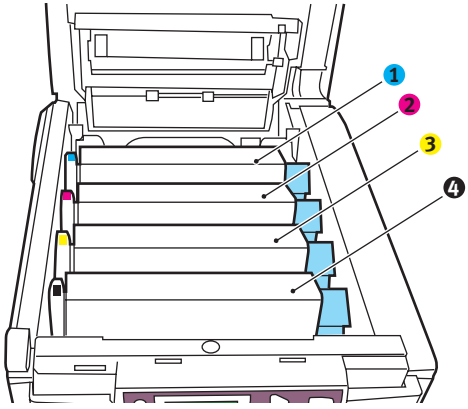
1. Press the cover release and open the printer's top cover fully.



WARNING!

If the printer has been powered on, the fuser may be hot. This area is clearly labelled. Do not touch.

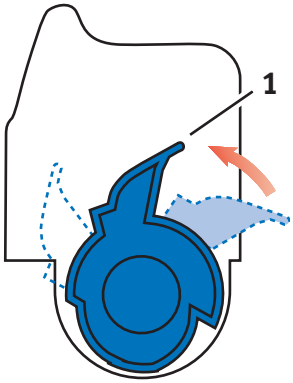
2. Note the positions of the four cartridges.



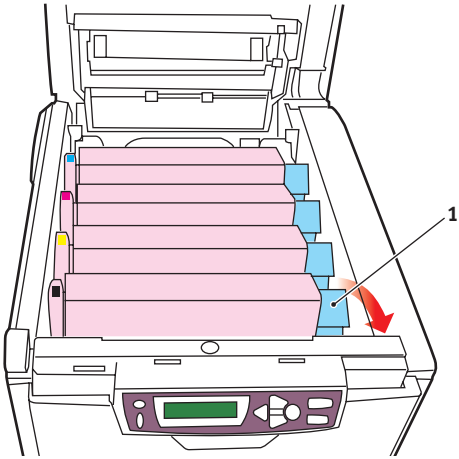
1. Cyan cartridge	2. Magenta cartridge
3. Yellow cartridge	4. Black cartridge

3. Carry out one of the following:

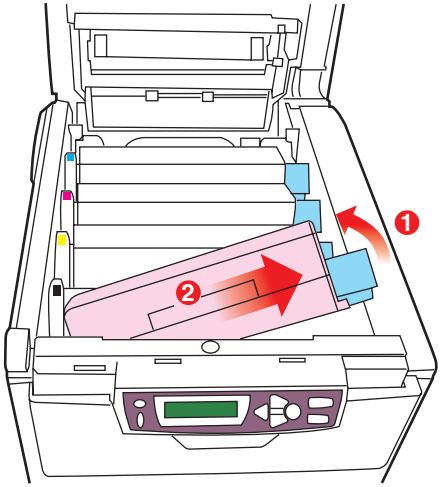
(a) If you are replacing a toner cartridge that has been supplied with your printer (lever has 3 positions), pull the coloured toner release lever on the cartridge to be replaced towards the front of the printer, in the direction of the arrow, but stop at the central (upright) position (1).



(b) If you are replacing any other toner cartridge (lever has 2 positions), pull the coloured toner release lever (1) on the cartridge to be replaced fully towards the front of the printer.



4. Lift the right-hand end of the cartridge and then draw the cartridge to the right to release the left-hand end as shown, and withdraw the toner cartridge out of the printer.



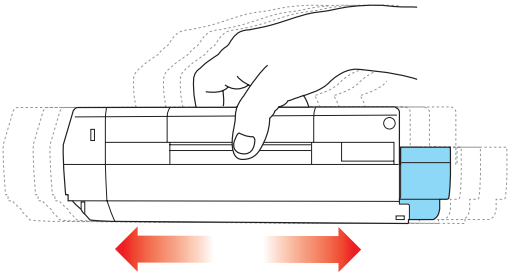
5. Put the cartridge down gently onto a piece of paper to prevent toner from marking your furniture.

CAUTION!

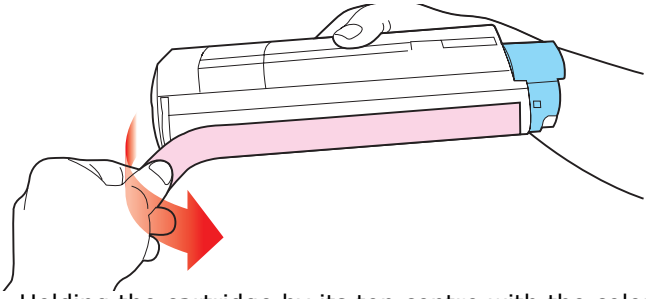
The green image drum surface is very delicate and light sensitive. Do not touch it and do not expose it to normal room light for more than 5 minutes. If the drum unit needs to be out of the printer for longer than this, please wrap the cartridge inside a black plastic bag to keep it away from light. Never expose the drum to direct sunlight or very bright room lighting.

6. Remove the new cartridge from its box but leave its wrapping material in place for the moment.

7. Gently shake the new cartridge from end to end several times to loosen and distribute the toner evenly inside the cartridge.

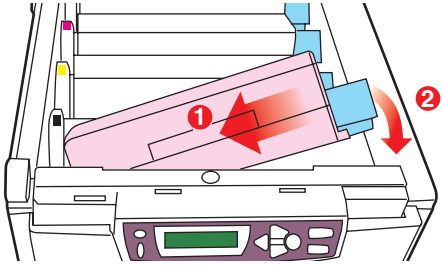


8. Remove the wrapping material and peel off the adhesive tape from the underside of the cartridge.

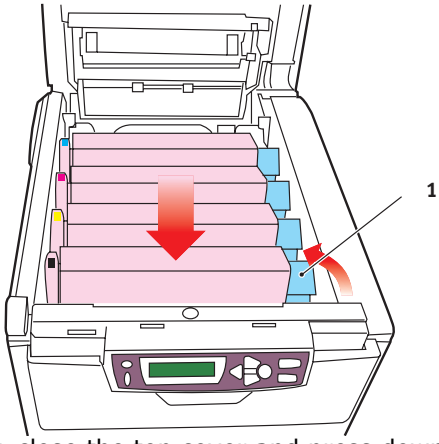


9. Holding the cartridge by its top centre with the coloured lever to the right, lower it into the printer over the image drum unit from which the old cartridge was removed.

10. Insert the left end of the cartridge into the top of the image drum unit first, pushing it against the spring on the drum unit, then lower the right end of the cartridge down onto the image drum unit.



11. Pressing gently down on the cartridge to ensure that it is firmly seated, push the coloured lever (1) towards the rear of the printer. This will lock the cartridge into place and release toner into the image drum unit.



12. Finally, close the top cover and press down firmly at both sides so that the cover latches closed.

IMAGE DRUM REPLACEMENT

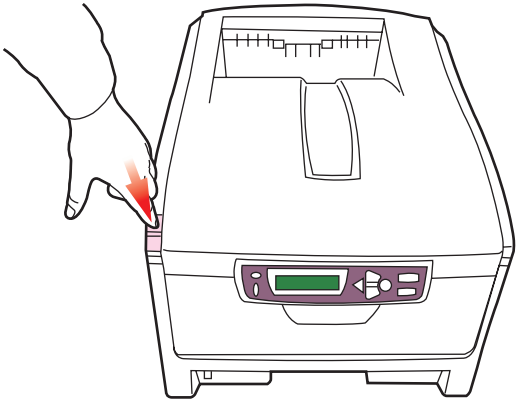
Switch off the printer and allow the fuser to cool for about 10 minutes before opening the cover.

CAUTION!

Static sensitive devices, handle with care.

The printer contains four image drums: cyan, magenta, yellow and black.

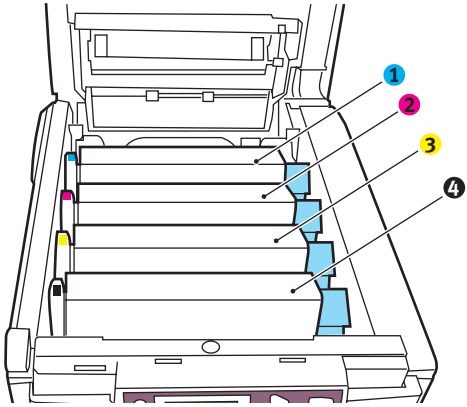
1. Press the cover release and open the printer's top cover fully.



WARNING!

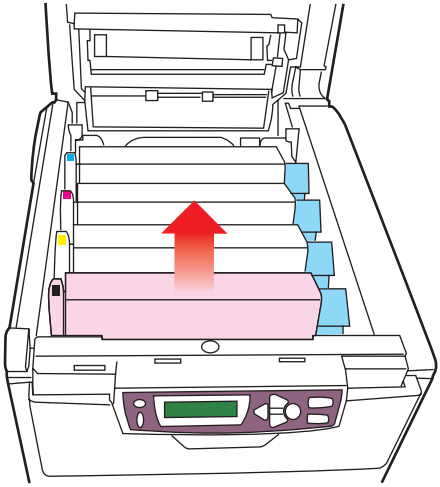
If the printer has been powered on, the fuser will be hot. This area is clearly labelled. Do not touch.

2. Note the positions of the four cartridges.



1. Cyan cartridge	2. Magenta cartridge
3. Yellow cartridge	4. Black cartridge

3. Holding it by its top centre, lift the image drum, complete with its toner cartridge, up and out of the printer.



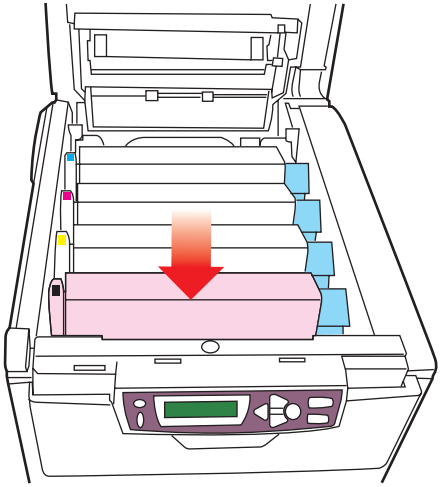
4. Put the old unit down gently onto a piece of paper to prevent toner from marking your furniture.

5. Take the new image drum unit, complete with toner cartridge (assembled according to the installation guide) and place it on the piece of paper where the old ID unit was placed. Keep it the same way round as the old unit. Pack the old ID unit inside the packaging material for disposal..

CAUTION!

The green image drum surface at the base of the cartridge is very delicate and light sensitive. Do not touch it and do not expose it to normal room light for more than 5 minutes. If the drum unit needs to be out of the printer for longer than this, please wrap the cartridge inside a black plastic bag to keep it away from light. Never expose the drum to direct sunlight or very bright room lighting.

6. Holding the complete assembly by its top centre, lower it into place in the printer, locating the pegs at each end into their slots in the sides of the printer cavity.



7. Finally, close the top cover and press down firmly at both sides so that the cover latches closed.

NOTE

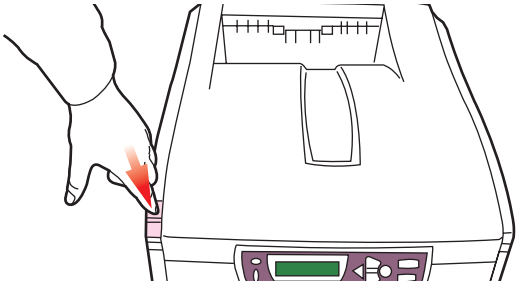
If you need to return or transport your printer for any reason, please make sure you remove the image drum unit beforehand and place in the bag provided. This is to avoid toner spillage.

REPLACING THE BELT UNIT

The belt unit is located under the four image drums. This unit requires replacement approximately every 50,000 pages.

Switch off the printer and allow the fuser to cool for about 10 minutes before opening the cover.

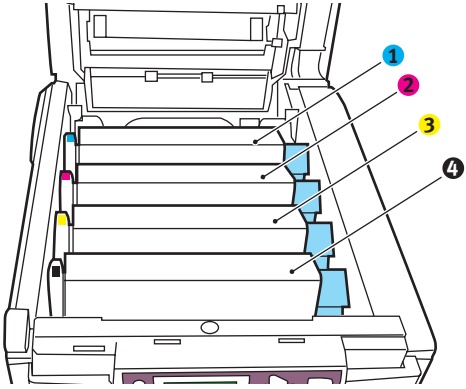
1. Press the cover release and open the printer's top cover fully.



WARNING!

If the printer has been powered on, the fuser will be hot. This area is clearly labelled. Do not touch.

2. Note the positions of the four cartridges. It is essential that they go back in the same order



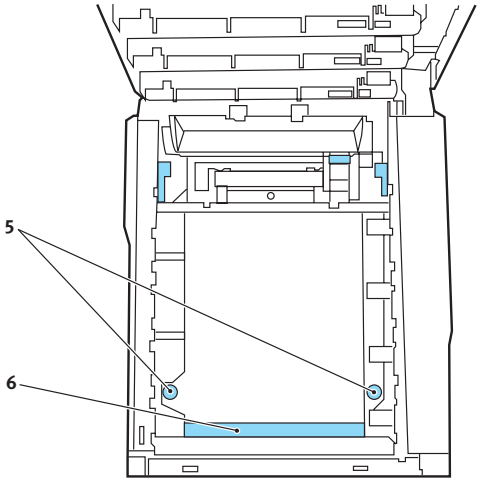
1. Cyan cartridge	2. Magenta cartridge
3. Yellow cartridge	4. Black cartridge

3. Lift each of the image drum units out of the printer and place them in a safe place away from direct sources of heat and light.

CAUTION!

The green image drum surface at the base of each cartridge is very delicate and light sensitive. Do not touch it and do not expose it to normal room light for more than 5 minutes. If the drum unit needs to be out of the printer for longer than this, please wrap the cartridge inside a black plastic bag to keep it away from light. Never expose the drum to direct sunlight or very bright room lighting.

4. Locate the two fasteners (5) at each side of the belt and the lifting bar (6) at the front end.



5. Turn the two fasteners 90° to the left. This will release the belt from the printer chassis.

6. Pull the lifting bar (6) upwards so that belt tilts up towards the front, and withdraw the belt unit from the printer.

7. Lower the new belt unit into place, with the lifting bar at the front and the drive gear towards the rear of the printer. Locate the drive gear into the gear inside the printer by the rear left corner of the unit, and lower the belt unit flat inside the printer.

8. Turn the two fasteners (5) 90° to the right until they lock. This will secure the belt unit in place.

9. Replace the four image drums, complete with their toner cartridges, into the printer in the same sequence as they came out: cyan (nearest the rear), magenta, yellow and black (nearest the front).

10. Finally, close the top cover and press down firmly at both sides so that the cover latches closed.

FUSER REPLACEMENT

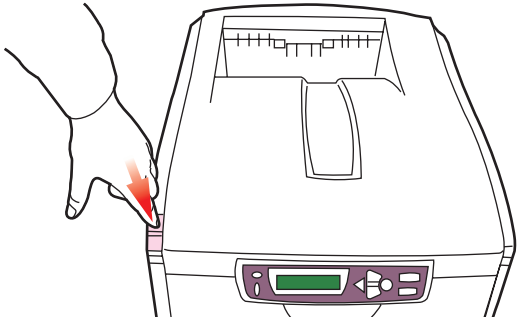
The fuser is located inside the printer just behind the four image drum units.

WARNING!

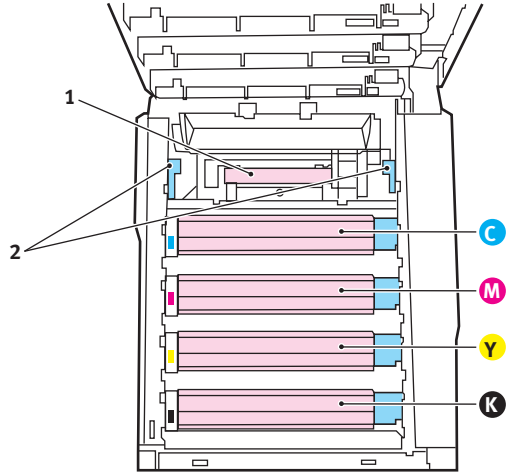
If the printer has recently been powered on, some fuser components will be very hot. Handle the fuser with extreme care, holding it only by its handle, which will only be mildly warm to the touch. A warning label clearly indicates the area. If in doubt, switch the printer off and wait at least 10 minutes for the fuser to cool before opening the printer cover.

Switch off the printer and allow the fuser to cool for about 10 minutes before opening the cover.

1. Press the cover release and open the printer's top cover fully.



2. Identify the fuser handle (1) on the top of the fuser unit.

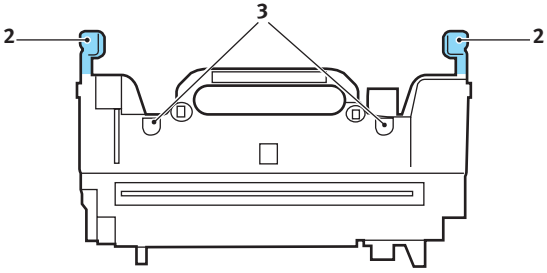


3. Pull the two fuser retaining levers (2) towards the front of the printer so that they are fully upright.

4. Holding the fuser by its handle (1), lift the fuser straight up and out of the printer. If the fuser is still warm, place it on a flat surface which will not be damaged by heat.

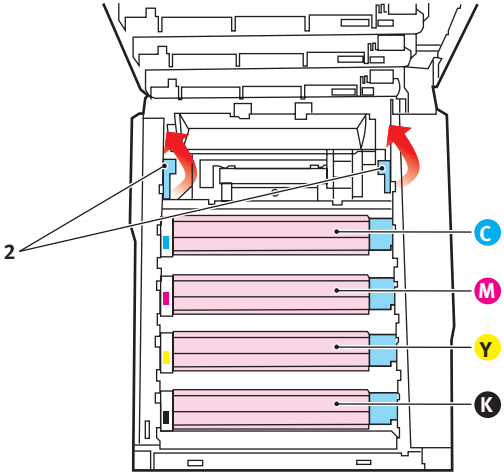
5. Remove the new fuser from its packaging and remove the transit material.

6. Holding the new fuser by its handle, make sure that it is the correct way round. The retaining levers (2) should be fully upright, and the two locating lugs (3) should be towards you.



7. Lower the fuser into the printer, locating the two lugs (3) into their slots in the metal partition which separates the fuser area from the image drums.

8. Push the two retaining levers (2) towards the rear of the printer to lock the fuser in place.

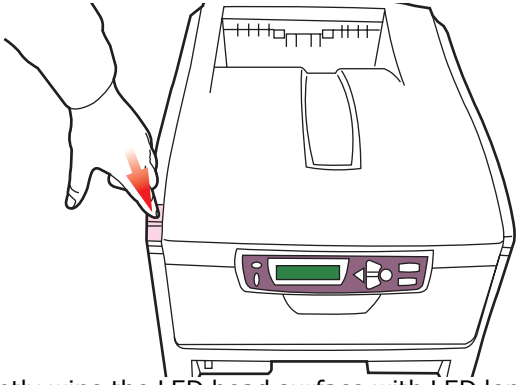


Finally, close the top cover and press down firmly at both sides so that the cover latches closed.

CLEANING THE LED HEAD

Clean the LED head when printing does not come out clearly, has white lines or when text is blurred.

1. Switch off the printer and open the top cover.



2. Gently wipe the LED head surface with LED lens cleaner or soft tissue.

CAUTION!

Do not use methyl alcohol or other solvents on the LED head as damage to the lens surface will occur.

3. Close the top cover.

INSTALLING UPGRADES

This section explains how to install optional equipment into your printer. This includes:

- duplex (two-sided printing) unit;
- additional RAM memory.

DUPLEX UNIT

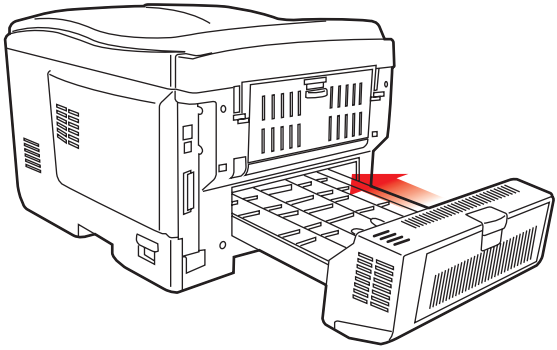
The duplex unit adds the function of two-sided printing, using less paper and making large documents easier to handle. It also enables booklet printing, which uses even less paper and makes large documents even easier to handle.

The duplex unit slides straight into the rear of the printer and requires no tools to install.

Ensure printer is switched off at the AC outlet and remove cable from printer AC input socket.

1. Unpack the new unit and remove any transit material from it.

2. Ensure that the unit is the right way up, as shown, and push it into the slot behind the rear panel. The panel will swing inwards as you push the unit into it. Push the unit all the way in until it stops and latches home.



3. Switch the printer on and wait for it to warm up (about 1 minute).

4. Print a menu map as follows:

(a) Press the **+** button to access the Information Menu.

(b) Press **ENTER** once for the menu map.

(c) Press **ENTER** again to print the menu map.

(d) When the menu map is printed, press **ON LINE** to exit the menu system.

5. Examine the first page of the menu map.

Near the top of the page, between the two horizontal lines, you will see the current printer configuration. This list should indicate that the duplex unit is now installed.

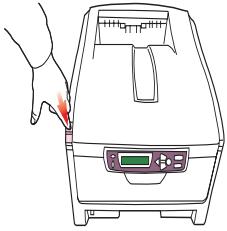
All that remains is to adjust the Windows printer driver to make full use of the new features.

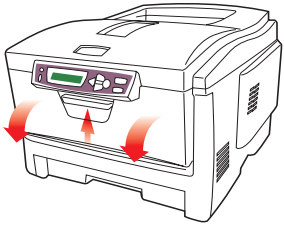
MEMORY UPGRADE

The basic printer model comes equipped with 32MB of main memory. This can be upgraded with an additional memory board containing 64MB or 256MB, giving a maximum total memory capacity of 288MB.

Installation takes a few minutes, and requires a medium size cross-head (philips type) screwdriver.

1. Switch the printer off and disconnect the AC power cable.
2. Press the cover release and open the printer's top cover fully.

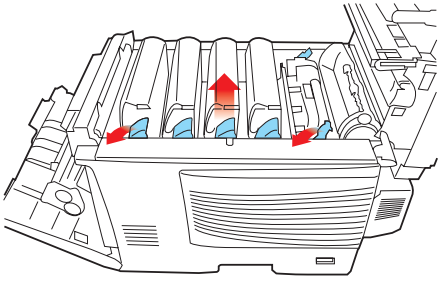




WARNING!

If the printer has been powered on recently, the fuser will be hot. This area is clearly labelled. Do not touch.

3. Lift the front cover latch and pull open the front cover.
4. Remove the screw securing the right-hand side cover.

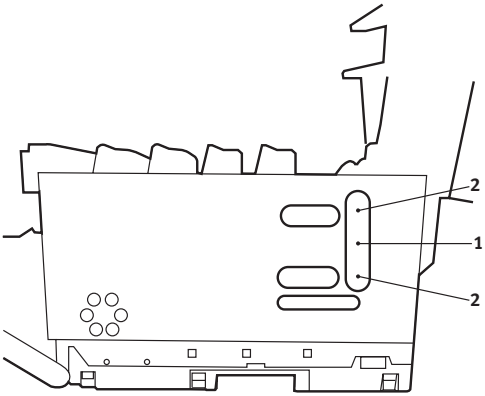


5. Lift the edge of the side cover slightly at the two points shown, and pull the cover away from the printer at the top. Lift the cover slightly to detach it from the printer. Place it safely to one side.

6. Carefully remove the new memory board from its wrapping. Try to handle the board only by its short edges, avoiding contact with any metal parts as far as possible. In particular, avoid touching the edge connector.

7. Notice that the memory board has a small cutout in the edge connector, which is closer to one end than the other.

8. Identify the RAM expansion slot (1) in the printer.



9. If the RAM expansion slot already contains a memory upgrade board, that board will have to be removed before you can install the new one. To remove it proceed as follows, otherwise skip to step 10.

(a) Identify the locking clips (2) at each end of the RAM expansion slot (1).

(b) Push the clips outward and back into the printer. The board will pop out slightly.

(c) Grip the board firmly by its short edges and pull it out of the slot.

(d) Place the removed memory board in the antistatic bag which originally contained the new memory board.

10. Hold the new memory board by its short edges, so that the edge connector faces in towards the RAM expansion slot, and the small cutout is closer to the bottom of the printer.

11. Gently push the board into the RAM expansion slot until it latches in and will not go any further.

12. Locate the three retaining clips at the bottom of the side cover into their rectangular holes near the bottom of the printer.

13. Close the top of the side cover up to the printer and refit the securing screw removed in step 4.

14. Close the front cover and close the top cover, pressing down firmly at each side to latch it closed.

15. Reconnect the AC power cable and switch the printer on.

16. When the printer is ready, print a menu map as follows:

(a) Press the **+** button to access the Information Menu.

(b) Press **ENTER** once for the menu map.

(c) Press **ENTER** again to print the menu map.

(d) When the menu map is printed, press **ON LINE** to exit the menu system.

17. Examine the first page of the menu map.

Near the top of the page, between the two horizontal lines, you will see the current printer configuration. This list contains the figure for total memory size.

This should indicate the total memory now installed, which should be the size of memory board you have installed plus 32MB.

SECOND PAPER TRAY

An additional paper tray can be installed and, when combined with the standard paper tray, increases the paper capacity to 830 sheets (approximately).

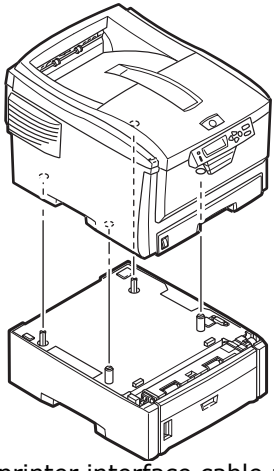
Installation

1. Switch off the printer and disconnect the power cable and printer interface cable.

WARNING!

The printer weighs 25 kg. 2 people are required to lift the printer safely and prevent any personal injury.

2. Lower the printer gently on to the additional paper tray unit aligning the holes and connection socket on the base of the printer with the locating pegs and plug on the additional paper tray unit.



3. Connect the printer interface cable and power cable, then switch on the printer.

All that remains is to adjust the Windows printer driver to make full use of the new features.

ADJUSTING WINDOWS PRINTER DRIVERS

Once your new upgrade has been installed, you may need to update the Windows printer driver so that the additional features are available to your Windows applications.

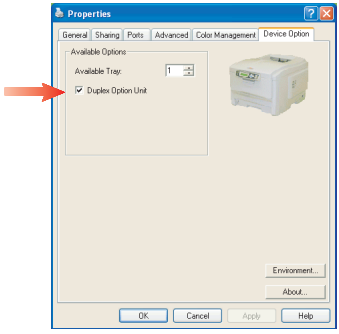
Remember that if your printer is shared between users on different computers, the driver must be adjusted on each user's machine.

The illustrations shown here are for Windows XP. Other Windows versions may appear slightly different, but the principles are the same.

If you have installed a memory upgrade it is not necessary to change the printer driver, and you can ignore this section.

If you have installed a duplex unit, proceed as follows:

1. Open the Printers window (called "Printers and Faxes" in Windows XP) via the **Start** Menu or from the Windows Control Panel.



2. Right-click the printer icon for this printer, and choose **Properties** from the pop-up menu.
3. On the **Device Options** tab, check the box for the upgrade you have just installed.
4. Click **OK** to close the properties window, and then close the Printers window.

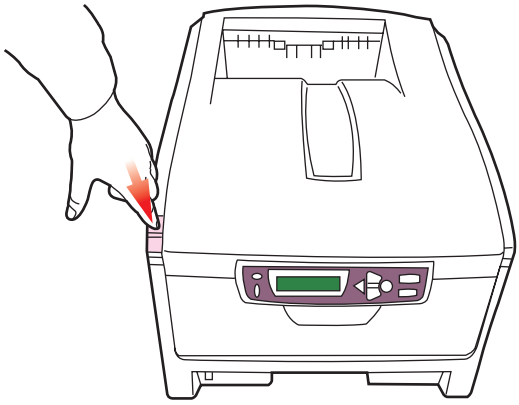
CLEARING PAPER JAMS

Provided that you follow the recommendations in this guide on use of print media, and you keep the media in good condition prior to use, your printer should give years of reliable service. However, paper jams occasionally do occur, and this section explains how to clear them quickly and simply.

Jams can occur due to paper misfeeding from a paper tray or at any point on the paper path through the printer. When a jam occurs, the printer immediately stops, and the LCD window on the operator panel informs you of the event. If printing multiple pages (or copies), do not assume that having cleared an obvious sheet that others will not also be stopped somewhere along the path. These must also be removed in order to clear the jam fully and restore normal operation.

1. If a sheet is well advanced out of the top of the printer, simply grip it and pull gently to draw it fully out. If it does not remove easily, do not use excessive force. It can be removed from the rear later.

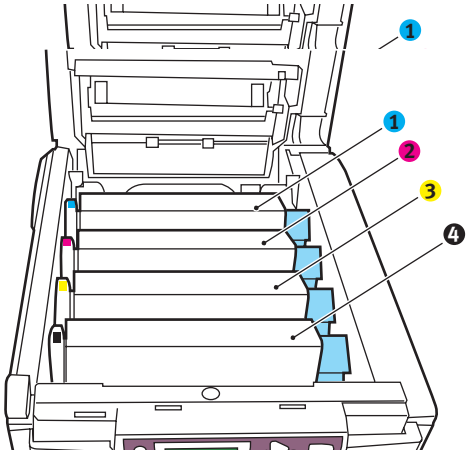
2. Press the cover release and open the printer's top cover fully.



WARNING!

If the printer has been powered on, the fuser will be hot. This area is clearly labelled. Do not touch.

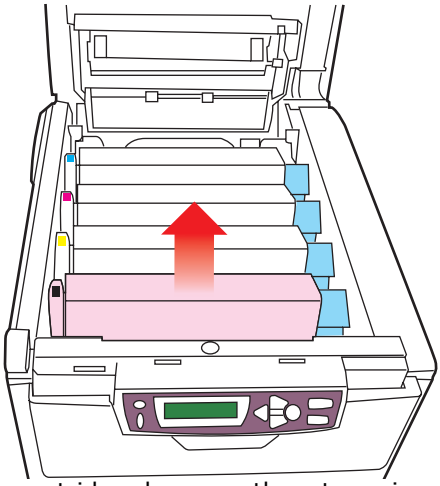
3. Note the positions of the four cartridges.



1. Cyan cartridge	2. Magenta cartridge
3. Yellow cartridge	4. Black cartridge

It will be necessary to remove the four image drums to gain access to the paper path.

4. Holding it by its top centre, lift the image drum, complete with its toner cartridge, up and out of the printer.



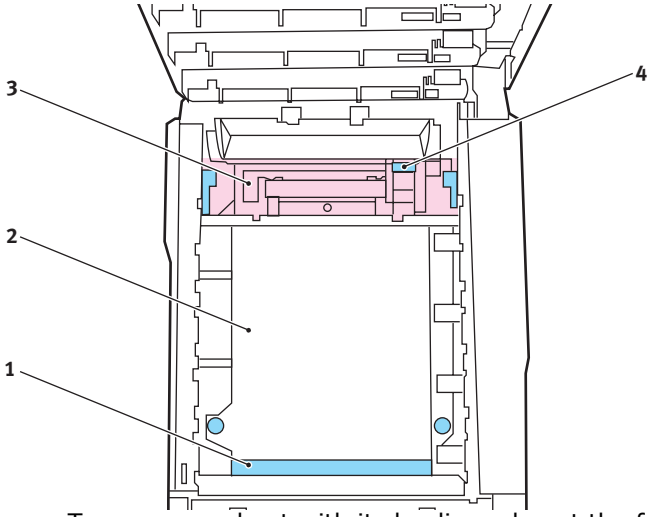
5. Put the cartridge down gently onto a piece of paper to prevent toner from marking your furniture and to avoid damaging the green drum surface.

CAUTION!

The green image drum surface at the base of the cartridge is very delicate and light sensitive. Do not touch it and do not expose it to normal room light for more than 5 minutes.

6. Repeat this removal procedure for each of the four image drum units.

7. Look into the printer to check whether any sheets of paper are visible on any part of the belt unit.

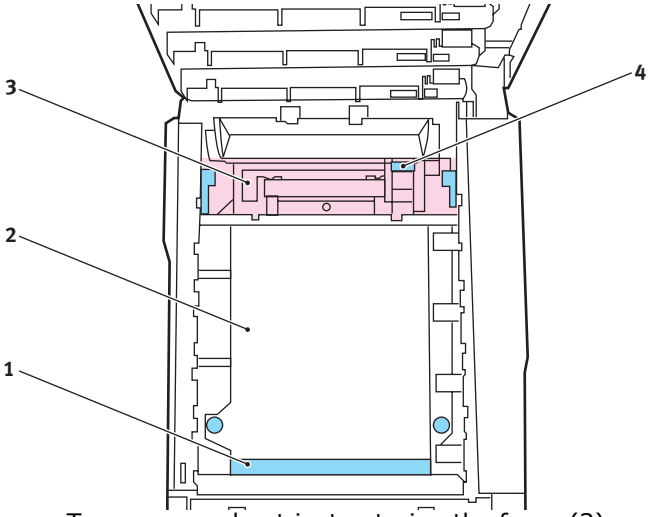


- To remove a sheet with its leading edge at the front of the belt (1), carefully lift the sheet from the belt and pull it forwards into the internal drum cavity and withdraw the sheet.

CAUTION!

Do not use any sharp or abrasive objects to separate sheets from the belt. This may damage the belt surface.

- To remove a sheet from the central area of the belt (2), carefully separate the sheet from the belt surface and withdraw the sheet.



- To remove a sheet just entering the fuser (3), separate the trailing edge of the sheet from the belt, push the fuser pressure release lever (4) towards the front and down to release the fuser's grip on the sheet, and withdraw the sheet through the drum cavity area. Then allow the pressure release lever to rise again.

NOTE

If the sheet is well advanced into the fuser (only a short length is still visible), do not attempt to pull it back. Follow the next step to remove it from the rear of the printer.

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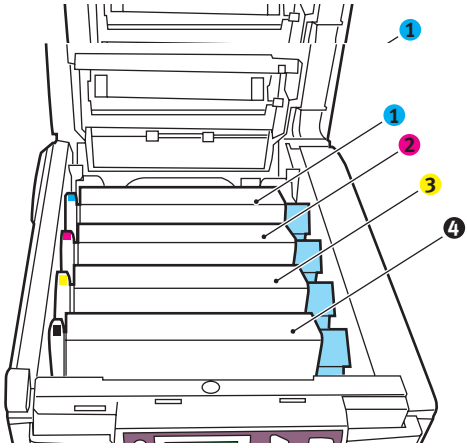
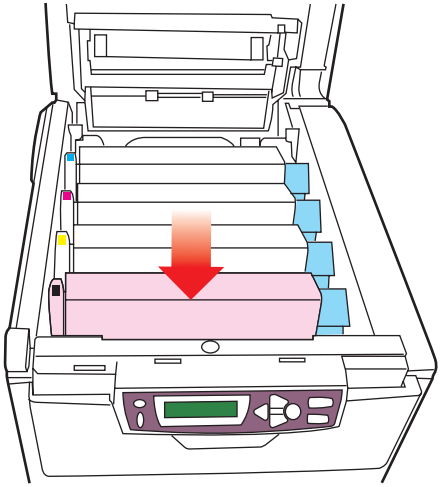
8. Starting with the cyan image drum unit nearest the fuser, replace the four image drums back into the drum cavity, making sure to locate them in the correct order.



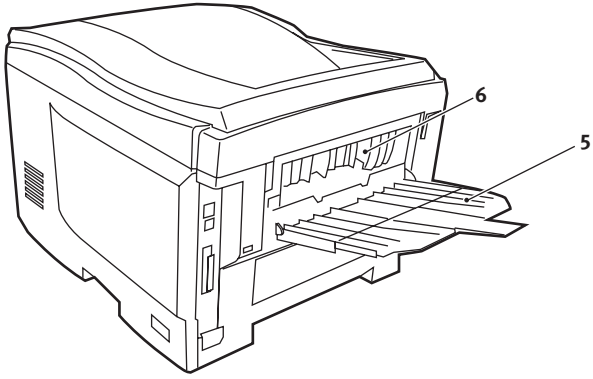
1. Cyan cartridge	2. Magenta cartridge
3. Yellow cartridge	4. Black cartridge

- Holding the complete assembly by its top centre, lower it into place in the printer, locating the pegs at each end into their slots in the sides of the printer cavity.



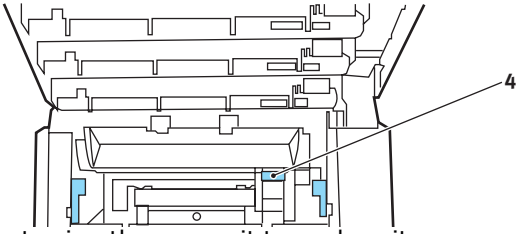
9. Lower the top cover down but do not press down to latch it closed yet. This will protect the drums from excessive exposure to room lighting while you check the remaining areas for jammed sheets.

10. Open the rear exit tray (5) and check for a sheet of paper in the rear path area (6).



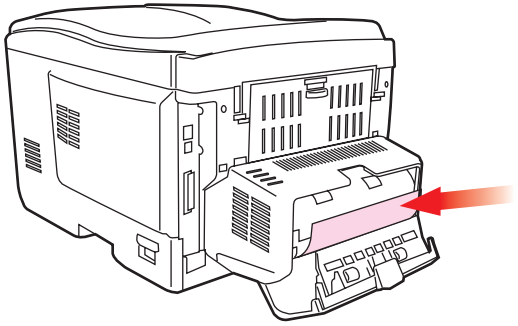
- Pull out any sheets found in this area.

- If the sheet is low down in this area and difficult to remove, it is probably still gripped by the fuser. In this case raise the top cover, reach around and press down on the fuser pressure release lever (4).

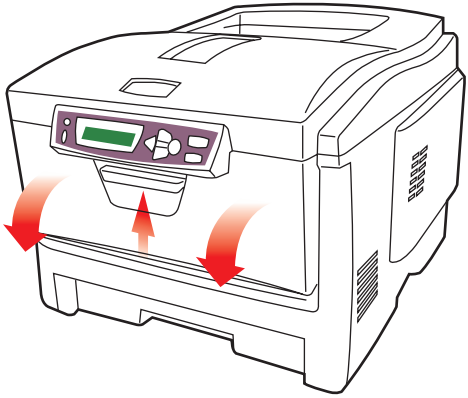


11. If not using the rear exit tray, close it once paper has been removed from this area.

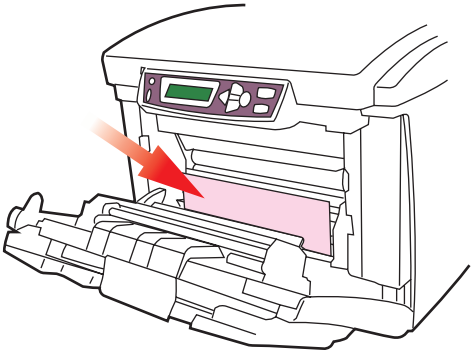
12. If your printer has a duplex unit installed, press the cover release at the centre of the unit, open the cover and remove any sheets in this area, then close the cover.



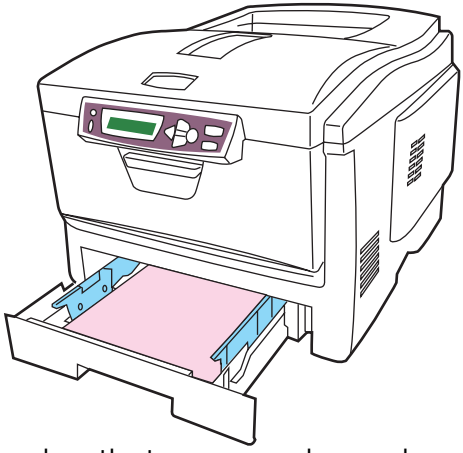
13. Lift the front cover release and pull open the front cover.



14. Check inside the cover for sheets in this area and remove any that you find, then close the cover.



15. Pull out the paper tray in use when the jam occurred and ensure that all paper is stacked properly, is undamaged, and that the paper guides are properly positioned against the edges of the paper stack. When satisfied, replace the tray.



16. Finally, close the top cover and press down firmly at both sides so that the cover latches closed.

When the jam has been cleared, if Jam Recovery is set to ON in the System Configuration Menu, the printer will attempt to reprint any pages lost due to paper jams.

SPECIFICATIONS

ITEM	SPECIFICATION
Dimensions	425 x 561 x 345mm (W x D x H)
Weight	25Kg
Print speeds	16 pages per minute colour / 24 pages per minute monochrome
Resolution	600dpi or 600 x 1200dpi
Emulations	Windows GDI
Auto Features	Auto registration Auto density adjustment Auto consumable counter reset
Memory	32MB standard, upgradable to 96MB or 288MB
Paper capacity at 80g/m²	300 sheets in main tray 530 sheets in optional 2nd tray 100 sheets in multi purpose tray
Paper weight	64 ~ 120g/m² in main tray 64 ~ 176g/m² in 2nd tray 75 ~ 203g/m² in multi purpose tray
Paper output	250 sheets in face down (top) stacker @ 80g/m² 100 sheets in face up (rear) stacker @ 80g/m²
Printer life	420,000 pages or 5 years
Duty cycle	50,000 pages per month max., 4,000 pages per month average
Toner life	5,000 pages at 5% coverage
Image drum life	17,000 pages (22,000 pages at continuous print,15,000 pages at 3 pages per job and 7,500 pages at 1 page per job)
Belt life	50,000 A4 pages at 3 pages per job
Fuser life	45,000 A4 pages

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